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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/396,429	09/15/1999	JOHN S. HENDRICKS	60136.0095USD2	7434	
94140 Merchant & Go	7590 05/12/201 uld - Cox	1	EXAMINER		
PO Box 2903	-	SALTARELLI, DOMINIC D			
Minneapolis, MN 55402			ART UNIT	PAPER NUMBER	
			2421		
			MAIL DATE	DELIVERY MODE	
			05/12/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	09/396,429	HENDRICKS ET AL.	
Office Action Summary	Examiner	Art Unit	
	DOMINIC D. SALTARELLI	2421	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with	the correspondence addres	ss
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTH: tte, cause the application to become ABAN	TION. be timely filed from the mailing date of this community DONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on <u>05</u> 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters	•	erits is
Disposition of Claims			
4) ☑ Claim(s) 66-85 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 66-85 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subject.	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the specific part of th	ccepted or b) objected to by e drawing(s) be held in abeyance ection is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1	, ,
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in App iority documents have been re au (PCT Rule 17.2(a)).	lication No ceived in this National Sta	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Professors's Petent Proving Review (PTO 048)		nmary (PTO-413) 1ail Date	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		rmal Patent Application	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 5, 2011 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 66-85 have been considered but are moot in view of the new grounds of rejection.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 80 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 80 recites the limitation "HDN terminal" in lines 2. There is insufficient antecedent basis for this limitation in the claim. Applicant has provided not definition as to what an "HDN terminal" comprises, nor is the term readily understood in the art.

Claim Rejections - 35 USC § 102

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 66, 70, 73, 77, 81-83, and 85 are rejected under 35 U.S.C. 102(e) as being anticipated by Bowen et al. (5,367,571) [Bowen].

Regarding claims 66, 73, 83, and 85, Bowen discloses a set top terminal for use with a television program delivery system with menu selection of programs, the set top terminal having a microprocessor and microprocessor instructions for prompting generation of menus (such as an electronic program quide, col. 4, lines 56-65) and comprising:

a receiver adapted to receive programs (fig. 2A, at RF input 100); and a first hardware upgrade (fig. 2B, expansion card 138) comprising: an upgrade interface configured for coupling to an expansion card interface of a set top terminal for communicating with the set top terminal and providing data to the set top terminal (col. 11, lines 43-65); and

a hardware upgrade microprocessor [which receives subscriber input], coupled to the upgrade interface, the hardware upgrade microprocessor configured for communicating with the set top terminal through the upgrade interface (when inserted, the secure microprocessor 201 may supplement or

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even replace the secure microprocessor of the set top device, col. 12, lines 4-24, which receives user input and controls operation of the system, col. 7, lines 5-21);

wherein the hardware upgrade microprocessor provides enhanced functions to the set top terminal through communication with the set top terminal using the upgrade interface (col. 12, lines 4-24).

Regarding claims 70 and 77, Bowen discloses the set top terminal and hardware upgrade of claims 66 and 73, wherein the upgrade interface is a card insertable interface enabling insertion into a card receiving slot of the set top terminal (col. 16, lines 1-61).

Regarding claim 81 and 82, Bowen discloses the set top terminal of claim 73, further comprising one ore more additional hardware upgrades connected to the terminal (system supports multiple modules, col. 12, lines 8-14), wherein the at least one additional hardware upgrade consists of a storage hardware upgrade (the hardware upgrade also provides additional memory for programs and data, col. 8, lines 28-35).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

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Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 67-69, 71, 72, 74-76, 78, 79, and 84 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowen in view of Hoarty et al. (5,526,034, of record) [Hoarty].

Regarding claims 67, 68, 74, 75, and 84 Bowen discloses the hardware upgrade, set top terminal, and system of claims 66, 73, and 83, further comprising memory, coupled to the hardware upgrade microprocessor, for storing data therein (col. 11 line 43 - col. 12 line 14 and col. 12, lines 60-66) and processing circuitry, coupled to the hardware upgrade microprocessor, wherein the hardware upgrade microprocessor accesses the memory and controls the processing circuitry to cause the processing circuitry to provide enhanced functions to the set top terminal via the upgrade interface (col. 12, lines 4-24 and col. 13 line 68 - col. 14 line 6). While Bowen also teaches that a modem is optionally included in the system to provide for communication between the receiver device and one or more headends (col. 5, lines 19-36), Bowen fails to disclose it is the processing circuitry that includes said modem.

In an analogous art, Hoarty teaches that it was known in the art at the time for set top devices with expansion ports to support insertion of a modern device into said expansion port to add additional functionality to the set top device (col. 16 line 60 - col. 17 line 5).

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It would have been obvious at the time to a person of ordinary skill in the art to modify the hardware upgrade, set top device, and system of Bowen to place the data modulation and demodulation function (modem) onto the hardware upgrade card, as taught by Hoarty. This represents an obvious rearrangement of components that does not affect the operation of Bowen's disclosed invention in any way.

Regarding claims 69 and 76, Bowen and Hoarty disclose the hardware upgrade and set top device of claims 67 and 74, wherein the modem of the hardware upgrade retrieves information from an interactive service by accessing an on-line database enabling the set top terminal to engage in transactions using two-way communications over the modem of the hardware upgrade with the interactive service (Bowen, col. 5, lines 19-36), but fail to disclose this takes place via submenus provided by the hardware upgrade microprocessor as an overlay to a program displayed by the microprocessor of the set top terminal (Bowen only generally discloses the use of overlay graphics, col. 6 line 61 - col. 7 line 4).

Examiner takes official notice that accessing interactive content via submenus provided as an overlay to a program displayed is notoriously well known in the art.

It would have been obvious at the time to a person of ordinary skill in the art to modify the hardware upgrade and set top device of Bowen and Hoarty to

include accessing the interactive content via submenus provided as an overlay to a program displayed. There is disclosure of each element claimed found in Bowen (menu access to content, interactive content, and capacity for creating overlays), Bowen is only silent on implementing the elements in the particular arrangement claimed.

Regarding claims 71, 72, 78, and 79, Bowen and Hoarty disclose the hardware upgrade and set top device of claims 67 and 74, wherein the modem of the hardware upgrade is capable of communicating with any type of interactive service outside of the television program delivery system, (Bowen, col. 5, lines 19-36) where any type is inclusive of home shopping, airline reservations, news, financial information, classified advertisements, home banking, and interactive teletext.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOMINIC D. SALTARELLI whose telephone number is (571)272-7302. The examiner can normally be reached on Monday - Friday 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dominic D Saltarelli/ Primary Examiner, Art Unit 2421